

Fossil-Fuel-Derived Carbon Dioxide Emissions at Monthly Resolution for the Countries of the North American Carbon Program

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ABSTRACT

Examination of national statistical databases has allowed for the widely-used, CDIAC-housed data set on annual, fossil-fuel-derived carbon dioxide emissions to be subdivided into monthly time intervals. This analysis focused on establishing reliable statistics that represent the solid, liquid, and gaseous fuels consumed in each country at monthly time scales. An intermediate product of this analysis was the fraction of the annual total consumption occurring in each month for each fuel. This monthly fraction was then multiplied by the annual carbon dioxide emission value to obtain a monthly emission estimate. This has the benefit of yielding monthly and annual emissions time series that are mutually consistent. This presentation will give monthly emissions for multiple years for the United States, Canada, and Mexico.